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HARNESS DICKEY & PIERCE, PLC
P.O. BOX 828
BLOOMFIELD HILLS, MI 48303

EXAMINER	
LEE, JAE YOUNG	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/788,616	FARR ET AL.	
	Examiner	Art Unit	
	JAE Y. LEE	2419	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 June 2009*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-35* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-35* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *5 May 2009*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-35 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

4. **Claims 1, 2, 5, 6, 7, 12-14, 17, 21-29, 30-32, and 35** are rejected under 35 U.S.C. 103(a) as being unpatentable over Giroti et al. (US 2003/0018700) in view of Evans et al. (US 2003/0033283).

For claim 1, Giroti discloses a method comprising:

- a first network (Fig. 2 18 wireless network, 20 PSTN) for an entity on a second network (Fig. 2 12 enterprise IP network, 14 application, 16 DB), accepting a first information from the first network, and transmitting the first information to the entity (Fig. 2; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Integrated application delivery system implicitly accepts message from the devices and transmits to the application and/or DB in enterprise IP network since the application and/or DB deliver the content and information via the integrated application delivery system), and
- accepting a second information from the entity, and the second information for the first entity (Fig. 2 12 enterprise IP network, 14 application, 16 DB; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s))

Giroti discloses all the subject matter of the claimed invention with the exception for providing a publisher/subscriber architecture having a subscription manager for generating a subscription and acting as a subscriber accepting a first information, transmitting the first information in accordance with the subscription, using a publication

manager of the publisher/subscriber architecture to accept a second information and to act as a publisher of the second information to at least one remote entity, and using the publisher/subscriber architecture to automatically register the entity to implement one of the publishing and subscription operations without a registration action by the entity. Evans discloses providing a publisher/subscriber architecture having a subscription manager for generating a subscription (Fig. 2; paragraph 0018 lines 3-7: publish & subscribe data distribution; paragraph 0020 lines 1-7: subscription message generator generating subscription message in a format acceptable to the data distribution system) and acting as a subscriber accepting a first information (paragraph 0021 lines 1-4: proxy server intercepting a user's message requesting access to a data set stored on a specified data server), transmitting the first information in accordance with the subscription (paragraph 0021 lines 7-11: if the requested data set is not stored in the cache, then user's access request message is forwarded to the specified data server), using a publication manager of the publisher/subscriber architecture to accept a second information and to act as a publisher of the second information to at least one remote entity (paragraph 0019 lines 7-11: proxy server including a subscription message generator for generating and sending messages to the data distribution system to subscribe on behalf of the proxy server to receive updates to specified data sets; paragraph 0025 lines 1-3: on receipt of an updated copy of a cached data set, proxy server is arranged to store the updated copy in the cache; paragraph 0021 lines 4-7: if the requested data set is stored in the cache, then the proxy server services the access request by providing access to the cached copy of the requested data set), and using

the publisher/subscriber architecture to automatically register the entity to implement one of the publishing and subscription operations without a registration action by the entity (Fig. 2; paragraph 0020 lines 1-7: subscription message generator generating subscription message in a format acceptable to the data distribution system; paragraph 0021 lines 7-11: if the requested data set is not stored in the cache, then user's access request message is forwarded to the specified data server; paragraph 0023 lines 1-7: on receipt of a subscription request message, data distribution system registers the request in a conventional way and forward to ensure that a subsequently received data set will be forwarded and delivered to proxy server; the proxy server automatically register the user to implement one of the publishing and subscription operations without a registration action by the user because the proxy server generate subscription message and the data distribution system register the request). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate providing a publisher/subscriber architecture having a subscription manager for generating a subscription and acting as a subscriber accepting a first information, transmitting the first information in accordance with the subscription, using a publication manager of the publisher/subscriber architecture to accept a second information and to act as a publisher of the second information to at least one remote entity, and using the publisher/subscriber architecture to automatically register the entity to implement one of the publishing and subscription operations without a registration action by the entity of Evans to the method of Giroti. The motivation would have been to

automatically update a cached file as soon as an update becomes available at a source file by using a publish and subscribe system (Evans paragraph 0010 lines 1-6).

For claim 2, Giroti discloses

- time division multiplexing information with the entity (Fig. 2 20 PSTN, 26 phone; PSTN is TDM based network)

For claim 5, Giroti discloses

- translating the first information from a protocol associated with the first information and a second protocol associated with the second information, the first and the second protocols being different (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks)

For claim 6, Giroti discloses

- the first protocol is a TDM protocol and the second protocol is an Internet Protocol (Fig. 2 12 enterprise IP network, 20 PSTN; PSTN is TDM based network)

For claim 7, Giroti discloses

- using XML to translate between the first protocol and the second protocol (Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

For claim 12, Giroti discloses a system comprising:

- an interface to an entity, the entity interface including a first protocol for communicating with the entity over the first network (Fig. 2 18 wireless network , 20 PSTN, 24: phone PDA, 26 phone; Integrated application delivery system implicitly has an interface connected to the corresponding network); and
- an interface to on the second network (Fig. 2 12 enterprise IP network, 14 application, 16 DB; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s))

Giroti discloses all the subject matter of the claimed invention with the exception for publisher/subscriber architecture including a publication manager that determines what remote entity is to receive a first quantity of information that is received by the agent from the entity and published by the agent; and a subscription manager that establishes at least one subscription for the entity to receive publications from at least one remote entity. Evans discloses publisher/subscriber architecture including a publication manager that determines what remote entity is to receive a first quantity of information that is received by the agent from the entity (paragraph 0021 lines 1-4: proxy server intercepting a user's message requesting access to a data set stored on a specified data server), and published by the agent; and a subscription manager that establishes at least one subscription for the entity to receive publications from at least one remote entity (paragraph 0019 lines 7-11: proxy server including a subscription message generator for generating and sending messages to the data distribution system to subscribe on behalf of the proxy server to receive updates to specified data sets; paragraph 0025 lines 1-3: on receipt of an updated copy of a cached data set, proxy server is arranged to store the updated copy in the cache; paragraph 0021 lines 4-7: if the requested data set is stored in the cache, then the proxy server services the access request by providing access to the cached copy of the requested data set). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate publisher/subscriber architecture including a publication manager that determines what remote entity is to receive a first quantity of information that is received by the agent from the entity and published by the agent; and

a subscription manager that establishes at least one subscription for the entity to receive publications from at least one remote entity of Evans to the method of Giroti. The motivation would have been to automatically update a cached file as soon as an update becomes available at a source file by using a publish and subscribe system (Evans paragraph 0010 lines 1-6).

For claim 13, Giroti discloses

- a translator translating the first information from a protocol associated with the first information and a second protocol associated with the second information, the first and the second protocols being different (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks)

For claim 14, Giroti discloses

- translator being based on XML (Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating

data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

For claim 21, Giroti discloses

- the entity interface is a TDM interface (Fig. 2 20 PSTN; PSTN is implicitly a TDM based network; Integrated application delivery system implicitly has an interface connected to the corresponding network)

For claim 22, Giroti discloses

- the second network interface includes an Internet interface (Fig. 2 12 enterprise IP network; Integrated application delivery system implicitly has an interface connected to the corresponding network)

For claim 23, Giroti discloses

- at least one of hardware, firmware, and software (Fig. 2, Fig. 3; paragraph 0025 lines 1-2: software platform)

For claim 24, Giroti discloses a system comprising:

- a first network having a first protocol (Fig. 2 20 PSTN);
- an entity configured to use the first protocol to communicate over the first network (Fig. 2 20 PSTN, 26 phone); and

- an agent associated with the first network interposed between the first network and a second network (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s)) to act as at least one of:
- a first information to be transmitted by the entity (Fig. 2; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Integrated application delivery system implicitly accepts message from the devices and transmits to the application and/or DB in enterprise IP network since the application and/or DB deliver the content and information via the integrated application delivery system), and
- a second information to be transmitted to the agent Fig. 2 12 enterprise IP network, 14 application, 16 DB; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s))

Giroti discloses all the subject matter of the claimed invention with the exception for acting as a subscriber having subscription, acting as a publisher, and a

publisher/subscriber architecture. Evans discloses acting as a subscriber having subscription (Fig. 2; paragraph 0018 lines 3-7: publish & subscribe data distribution; paragraph 0020 lines 1-7: subscription message generator generating subscription message in a format acceptable to the data distribution system), acting as a publisher (paragraph 0019 lines 7-11: proxy server including a subscription message generator for generating and sending messages to the data distribution system to subscribe on behalf of the proxy server to receive updates to specified data sets; paragraph 0025 lines 1-3: on receipt of an updated copy of a cached data set, proxy server is arranged to store the updated copy in the cache; paragraph 0021 lines 4-7: if the requested data set is stored in the cache, then the proxy server services the access request by providing access to the cached copy of the requested data set), and a publisher/subscriber architecture (Fig. 2; paragraph 0018 lines 3-7: publish & subscribe data distribution; paragraph 0020 lines 1-7: subscription message generator generating subscription message in a format acceptable to the data distribution system). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate acting as a subscriber having subscription, acting as a publisher, and a publisher/subscriber architecture of Evans to the system of Giroti. The motivation would have been to automatically update a cached file as soon as an update becomes available at a source file by using a publish and subscribe system (Evans paragraph 0010 lines 1-6).

For claim 25, Giroti discloses

- a third network (Fig. 2 18 wireless network) in communication with second network and providing the second information (Fig. 2 12 enterprise IP network, 14 application, 16 DB; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s))

For claim 26, Giroti discloses

- a third network (Fig. 2 18 wireless network) in communication with second network and providing the first information (Fig. 2 12 enterprise IP network, 14 application, 16 DB; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s)' paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Integrated application delivery system implicitly accepts message from the devices and transmits to the application and/or DB in enterprise IP network since the application and/or DB deliver the content and information via the integrated application delivery system)

For claim 27, Giroti discloses

- the first protocol is a TDM protocol (Fig. 2 20 PSTN; PSTN is TDM based network)

For claim 28, Giroti discloses

- the first protocol (Fig. 2 20 PSTN; PSTN is TDM based network)

Giroti and Ennis disclose all the subject matter of the claimed invention with the exception for TADIL-J. Examiner takes Official Notice that TADIL-J is well known protocol in the art. Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to use TADIL-J instead of TDM in order to provide flexibility over communication network.

For claim 29, Giroti discloses

- the first protocol (Fig. 2 20 PSTN; PSTN is TDM based network)

Giroti and Ennis disclose all the subject matter of the claimed invention with the exception for VMF. Examiner takes Official Notice that VMF is well known protocol in the art. Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to use VMF instead of TDM in order to provide flexibility over communication network.

For claim 30, Giroti discloses

- the agent further comprising an a translator translating between the first protocol and the second protocols (Fig. 2; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s))

For claim 31, Giroti discloses

- translator being based on XML (Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

For claim 32, Giroti discloses

- the first network is associate with a mobile platform (Fig. 2 18 wireless network, 24 phone PDA)

For claim 35, Giroti discloses

- the first protocol is custom to the first network (Fig. 2 20 PSTN; PSTN is implicitly a TDM based network)

5. **Claims 3, 4, 15, and 16** are rejected under 35 U.S.C. 103(a) as being unpatentable by Giroti et al. (US 2003/0018700) in view of Evans et al. (US 2003/0033283) as applied to claim 1 above, and further in view of Chou et al. (US 2003/0018796).

For claim 3, Giroti discloses

- Information between publisher and subscriber (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Integrated application delivery system implicitly accepts request from the devices and transmits to the application and/or DB in enterprise IP network since the application and/or DB deliver the content and information via the integrated application delivery system)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for fusing the first information and a third information and transmitting the fused information. Chou discloses using the first information and a third information and transmitting the fused information (Fig. 3B, Fig. 5; paragraph 0013 lines 11-19: multiplexing different versions of the multimedia information encoded at a different transmission rate to form a sequence of frames having an average transmission rate approximating the available transmission rate; paragraph 0042 lines 12-18). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of

invention was made to incorporate fusing the first information and a third information and transmitting the fused information of Chou to the method of Giroti and Evans. The motivation would have been to increase bandwidth efficiency by using multiplexing technique.

For claim 4, Giroti discloses

- Information between publisher and subscriber (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Integrated application delivery system implicitly accepts request from the devices and transmits to the application and/or DB in enterprise IP network since the application and/or DB deliver the content and information via the integrated application delivery system)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for the first information and the third information transmitted at different rates. Chou discloses the first information and the third information transmitted at different rates (Fig. 3B, Fig. 5; paragraph 0013 lines 11-19: multiplexing different versions of the multimedia information encoded at a different transmission rate to form a sequence of frames having an average transmission rate approximating the available transmission rate; paragraph 0042 lines 12-18). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate the first information and the third information transmitted at different rates of Chou to the method

of Giroti and Evans. The motivation would have been to increase bandwidth efficiency by using multiplexing technique.

For claim 15, Giroti discloses

- The sources being associated with at least one of the first network and the second network (Fig. 2 12 enterprise IP network, 14 application, 16 DB, 20 PSTN; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s))

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for an information fuser wherein the fuser to fuse information for at least two sources. Chou discloses Fig. 2 12 enterprise IP network, 14 application, 16 DB (Fig. 3B, Fig. 5; paragraph 0013 lines 11-19: multiplexing different versions of the multimedia information encoded at a different transmission rate to form a sequence of frames having an average transmission rate approximating the available transmission rate; paragraph 0042 lines 12-18). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate Fig. 2 12 enterprise IP network, 14 application, 16 DB of Chou to the method of Giroti and Evans. The motivation would have been to increase bandwidth efficiency by using multiplexing technique.

For claim 16, Giroti discloses

- Information between publisher and subscriber (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Integrated application delivery system implicitly accepts request from the devices and transmits to the application and/or DB in enterprise IP network since the application and/or DB deliver the content and information via the integrated application delivery system)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for the information fuser being configured to accept information form the first and the second sources at different rates. Chou discloses the information fuser being configured to accept information form the first and the second sources at different rates (Fig. 3B, Fig. 5; paragraph 0013 lines 11-19: multiplexing different versions of the multimedia information encoded at a different transmission rate to form a sequence of frames having an average transmission rate approximating the available transmission rate; paragraph 0042 lines 12-18). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to the information fuser being configured to accept information form the first and the second sources at different rates of Chou to the method of Giroti and Evans. The motivation would have been to increase bandwidth efficiency by using multiplexing technique.

6. **Claims 8, 9, 10, 18-20, and 34** are rejected under 35 U.S.C. 103(a) as being unpatentable by Giroti et al. (US 2003/0018700) in view of Ennis et al. (US 7,356,529) as applied to claim 1 above, and further in view of Nedbal (US 7,107,574).

For claim 8, Giroti discloses

- the protocol associated with the second information and an expected protocol for the second information (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for validating by comparison. Nedbal discloses validating by comparison (col 6 lines 30-31: validating XML data against XML schema data; col 11 lines 47-55: XML parser validating XMAL data against the XSD data in order to generate a validation result in including error message and valid configuration response). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to validating by comparison of Nedbal to the method of Giroti and Evans. The motivation would have been to enhance reliability by using XSD validation technique.

For claim 9, Giroti discloses

- using XML (Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for validating using an XSD schema. Nedbal discloses validating using an XSD schema (col 6 lines 30-31: validating XML data against XML schema data; col 11 lines 47-55: XML parser validating XMAL data against the XSD data in order to generate a validation result in including error message and valid configuration response). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate validating using an XSD schema of Nedbal to the method of Giroti and Evans. The motivation would have been to enhance reliability by using XSD validation technique.

For claim 10, Giroti discloses

- using XML (Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data

packets or streams between the enterprise IP network and the user networks;

Fig. 5, paragraph 0029 lines 17-29)

Giroti and Ennis disclose all the subject matter of the claimed invention with the exception for ignoring subsequent messages from the same source if the validation failed. Nedbal discloses ignoring subsequent messages from the same source if the validation failed (col 6 lines 30-31: validating XML data against XML schema data; col 11 lines 47-55: XML parser validating XMAL data against the XSD data in order to generate a validation result in including error message in case of failure; it is obvious that subsequent pieces are ignored due to generating error message). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate ignoring subsequent messages from the same source if the validation failed of Nedbal to the method of Giroti and Ennis. The motivation would have been to enhance reliability by using XSD validation technique.

For claim 18, Giroti discloses

- information received from the second network (Fig. 2 10 integrated application delivery system; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data

packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for a validation manager to validate information. Nedbal a validation manager to validate information (col 6 lines 30-31: validating XML data against XML schema data; col 11 lines 47-55: XML parser validating XMAL data against the XSD data in order to generate a validation result in including error message and valid configuration response). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate a validation manager to validate information of Nedbal to the system of Giroti and Evans. The motivation would have been to enhance reliability by using XSD validation technique.

For claim 19, Giroti discloses

- the protocol associated with the information from the second network with an expected protocol for the information from the second network (paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); Fig. 2 10 integrated application delivery system; paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for validation manager to validate the information by comparison. Nedbal discloses validation manager to validate the information by comparison (col 6 lines 30-31: validating XML data against XML schema data; col 11 lines 47-55: XML parser validating XMAL data against the XSD data in order to generate a validation result in including error message and valid configuration response). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to validation manager to validate the information by comparison of Nedbal to the system of Giroti and Evans. The motivation would have been to enhance reliability by using XSD validation technique.

For claims 20, 34, Giroti discloses

- information received from the second network (Fig. 2 10 integrated application delivery system; paragraph 0022 lines 4-8: integrated application delivery system allowing content and information from the applications and databases to be delivered to any of the devices via the respective network(s); paragraph 0024 lines 13-16: unified XML controller controlling delivery of content via the convergence switch performing the gateway-like function of translating data packets or streams between the enterprise IP network and the user networks; Fig. 5, paragraph 0029 lines 17-29)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for an XSD schema used by validation manager to validate information.

Nedbal discloses an XSD schema used by validation manager to validate information (col 6 lines 30-31: validating XML data against XML schema data; col 11 lines 47-55: XML parser validating XMAL data against the XSD data in order to generate a validation result in including error message and valid configuration response). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate an XSD schema used by validation manager to validate information of Nedbal to the system of Giroti and Evans. The motivation would have been to enhance reliability by using XSD validation technique.

7. **Claim 11** is rejected under 35 U.S.C. 103(a) as being unpatentable by Giroti et al. (US 2003/0018700) in view of Evans et al. (US 2003/0033283) as applied to claim 1 above, and further in view of Ennis et al. (US 7,356,529) and Mueller et al. (US 2005/0027867).

For claim 11, Giroti discloses

- network (Fig. 2)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for accepting a request for changed subscription from the entity and changing the subscription. Ennis discloses accepting a request for changed subscription from the entity and changing the subscription (col 10 lines 63-65: local subscribers table is updated to reflect the subscription registration; col 11 lines 11-13: global subscribers table is updated to include the new subscription). Therefore, it would have been obvious

to the person of ordinary skill in the art at the time of invention was made to incorporate accepting a request for changed subscription from the entity and changing the subscription of Ennis to the method of Giroti and Evans. The motivation would have been to provides improved scalability, improved efficiency and enhanced functionality and performance by enabling a subscriber to subscribe to multiple events using a single namespace specification and a single subscription request (Ennis col 2 lines 1-12).

Giroti, Evans, and Ennis disclose all the subject matter of the claimed invention with the exception for dynamic subscription registration. Mueller discloses dynamic subscription registration (paragraph 0034 lines 1-10: subscription including identity, and device registration done dynamically at a future time). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate dynamic subscription registration of Mueller to the method of Giroti, Evans and Ennis. The motivation would have been to increase flexibility by actively changing information by user (paragraph 0034 lines 6-10).

8. **Claim 17** is rejected under 35 U.S.C. 103(a) as being unpatentable by Giroti et al. (US 2003/0018700) in view of Evans et al. (US 2003/0033283) as applied to claim 12 above, and further in view of Ennis et al. (US 7,356,529).

For claim 17, Giroti discloses

- the first entity (Fig. 2 12 enterprise IP network, 14 application, 16 DB)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for a registration manager to register the entity as at least one of a publisher and a subscriber. Ennis discloses a registration manager to register the entity as at least one of a publisher and a subscriber (col 9 lines 41-44: checking the global subscribers table to determine whether there are any publishers that have registered to publish event to the name space). Therefore, it would have been obvious to the person of ordinary skill in the art at the time of invention was made to incorporate a registration manager to register the entity as at least one of a publisher and a subscriber of Ennis to the system of Giroti and Evans. The motivation would have been to provides improved scalability, improved efficiency and enhanced functionality and performance by enabling a subscriber to subscribe to multiple events using a single namespace specification and a single subscription request (Ennis col 2 lines 1-12).

9. **Claim 33** is rejected under 35 U.S.C. 103(a) as being unpatentable by Giroti et al. (US 2003/0018700) in view of Evans et al. (US 2003/0033283) as applied to claim 32 above, and further in view of McCall et al. (US 2002/0188522).

For claim 33, Giroti discloses

- the mobile platform (Fig. 2 18 wireless network, 24 phone PDA)

Giroti and Evans disclose all the subject matter of the claimed invention with the exception for air craft as mobile platform. McCall discloses air craft as mobile platform (paragraph 0074 lines 6-9). Therefore, it would have been obvious to the person of

ordinary skill in the art at the time of invention was made to incorporate air craft as mobile platform of McCall to the method of Giroti and Evans. The motivation would have been to provide maximize mobility.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jae Y. Lee whose telephone number is (571) 270-3936. The examiner can normally be reached on Monday through Friday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Ryman can be reached on (571) 272-3152. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jae Y Lee/
Examiner, Art Unit 2419

/Daniel J. Ryman/
Supervisory Patent Examiner, Art Unit 2419